

Analysis Report

2425 New Holland Pike, Lancaster, PA 17681 • 757-656-2300 • Fax: 717-656-6766 • www.EurotineitS.com/LanciabsEnv

Partial Report

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. **ELLE Sample #:** ELLE Group #: Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 11:56

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics EPA	537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-	ethyl perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N	-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
14070	Full List PEAS - DW	EPA 537 Version 1.1	1	18005007	01/09/2018 20:10	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

307-24-4

Tetra Tech, Inc. **ELLE Sample #: ELLE Group #:** Matrix: Water

Ex. 6 - Personal Privacy

Submittal Date/Time:

Project Name:

Wolverine World Wide Tannery

Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 12:50 Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc.	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acro	nym for N-ethyl perfluorooctanesulfon	amidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acr	onym for N-methyl perfluorooctanesulf	onamidoacetic Acid.		
14070	Perfluorobutanesulfona	ate 375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic a	cid 307-55-1	N.D.	2	1
14070	Perfluoroheptanoic aci	d 375-85-9	N.D.	2	1
14070	Perfluorohexanesulfon	ate 355-46-4	N.D.	2	1

N.D.

Reference ID:

14070

1891712170118154506

Perfluorohexanoic acid



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Tetra Tech, Inc. ELLE Sample #: ELLE Group #: Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 12:50 Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics EPA 53	7 Version 1.1	ng/l	ng/l	
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18005007	01/16/2018 00:06	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: ELLE Group #: Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#: 12/29/2017 10:00 12/27/2017 14:38 Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym	n for N-ethyl perfluorooctanesulfonar	nidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acrony	n for N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic aci	d 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
Thor	acovery for 13C2 DEHVA is	outside of OC accontance limits			

The recovery for 13C2-PFHxA is outside of QC acceptance limits as noted on the QC Summary. Since the result is high and no target analytes were detected, the data is reported.

Reference ID: 1891712170118154506



Analysis Report

Tetra Tech, Inc.

ELLE Sample #:

ELLE Group #:

Matrix: Water

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Partial Report

Ex. 6 - Personal Privacy

Laboratory Sample Analysis Record

Method CAT **Analysis Name** Trial# Batch# Analysis Analyst Dilution Date and Time Factor No. Full List PFAS - DW 18005007 01/09/2018 20:21 14070 EPA 537 Version 1.1 Marissa C Drexinger

Sample Description:

Ex. 6 - Personal Privacy

Project Name: Wolverine World Wide Tannery

SDG#: Ex. 6 - Personal Privacy

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time: 12/27/2017 17:19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics EPA 53	7 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-eth	yl perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-me	ethyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
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14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18005007	01/16/2018 00:17	Marissa C Drexinger	1

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For Eurofins Lancaster Laboratories Environmental use only

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Sample Administration Receipt Documentation Log

Doc Log ID: 205017

Group Number(s): 1891712

Client: MSG/TETRA TECH

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 12/29/2017 10:00

Number of Packages: $\underline{4}$ Number of Projects: $\underline{1}$

State/Province of Origin: MI

Arrival Condition Summary

Shipping Container Sealed: Yes Sample IDs on COC match Containers: Yes Custody Seal Present: Yes Sample Date/Times match COC: Yes

Custody Seal Intact: Yes VOA Vial Headspace ≥ 6mm: N/A

Samples Chilled: Yes Total Trip Blank Qty: 0

Paperwork Enclosed: Yes Air Quality Samples Present: No

Samples Intact: Yes

Missing Samples: No Extra Samples: No

Discrepancy in Container Qty on COC: No

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Υ	Bagged	N
2	DT146	1.3	DT	Wet	Υ	Bagged	N
3	DT146	0.4	DT	Wet	Υ	Bagged	N
4	DT146	1.0	DT	Wet	Υ	Bagged	N



RMOL

Dry weight

basis

Lancaster Laboratories Environmental

Below Minimum Quantitation Level

Explanation of Symbols and Abbreviations

milligram(s)

The following defines common symbols and abbreviations used in reporting technical data:

DIVIGE	Delow William Quantitation Level	iiig	mingram(s)			
С	degrees Celsius	mL	milliliter(s)			
cfu	colony forming units	MPN	Most Probable Number			
CP Units	cobalt-chloroplatinate units	N.D.	non-detect			
F	degrees Fahrenheit	ng	nanogram(s)			
g	gram(s)	NTU	nephelometric turbidity units			
IU	International Units	pg/L	picogram/liter			
kg	kilogram(s)	RL	Reporting Limit			
L	liter(s)	TNTC	Too Numerous To Count			
lb.	pound(s)	μg	microgram(s)			
m3	cubic meter(s)	μL	microliter(s)			
meq	milliequivalents	umhos/cm	micromhos/cm			
<	less than					
>	greater than					
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.					
ppb	parts per billion					

ma

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
Ε	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.